



WASHINGTON STATE  
DEPARTMENT OF  
ECOLOGY

# Phase I Municipal Stormwater Permit



# Phase I - Municipal Stormwater Permit for Discharges from Large and Medium MS4s

- Permit Coverage
- SWMP for Permittees
- SWMP for Secondary Permittees
- Monitoring

# Permit Coverage:

- Seattle

- Tacoma

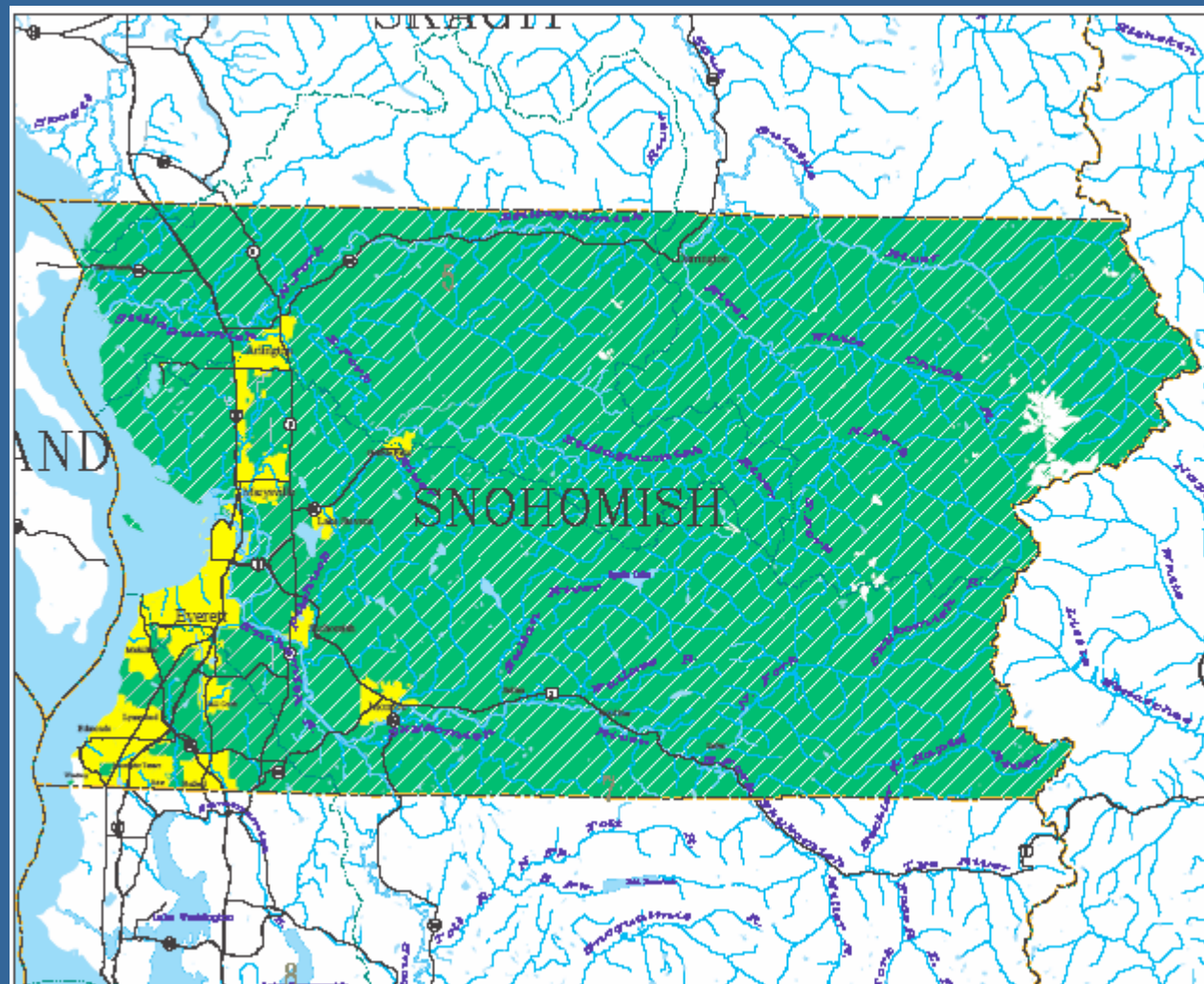
Unincorporated portions of:

- Snohomish County

- King County

- Pierce County

- Clark County



# Snohomish County Stormwater Permit Areas

## Municipal Stormwater Permit Areas

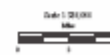
|          |                         |
|----------|-------------------------|
| Phase I  | Phase I Area            |
|          | Urban Growth Area (UGA) |
|          | Urban Area (UA)         |
| Phase II | Incorporated City       |

- County
- WRIA Boundary
- US/State Highways
- Rivers/Streams

## Representational Feature Source:

Urban Area - USDOG/Corvus, 2000, 1:500,000  
 Urban Growth Area - WQIA/Ecolgy 2005, 1:24,000  
 Cities - WQIA, 2000, 1:24,000  
 Counties - Ecology/WQIA, 2002, 1:24,000  
 WRIA - Ecology, 2002, 1:24,000  
 Highways - WQIA, 2000, 1:24,000  
 Hydrography - Ecology/WQIA, 1998, 1:500,000

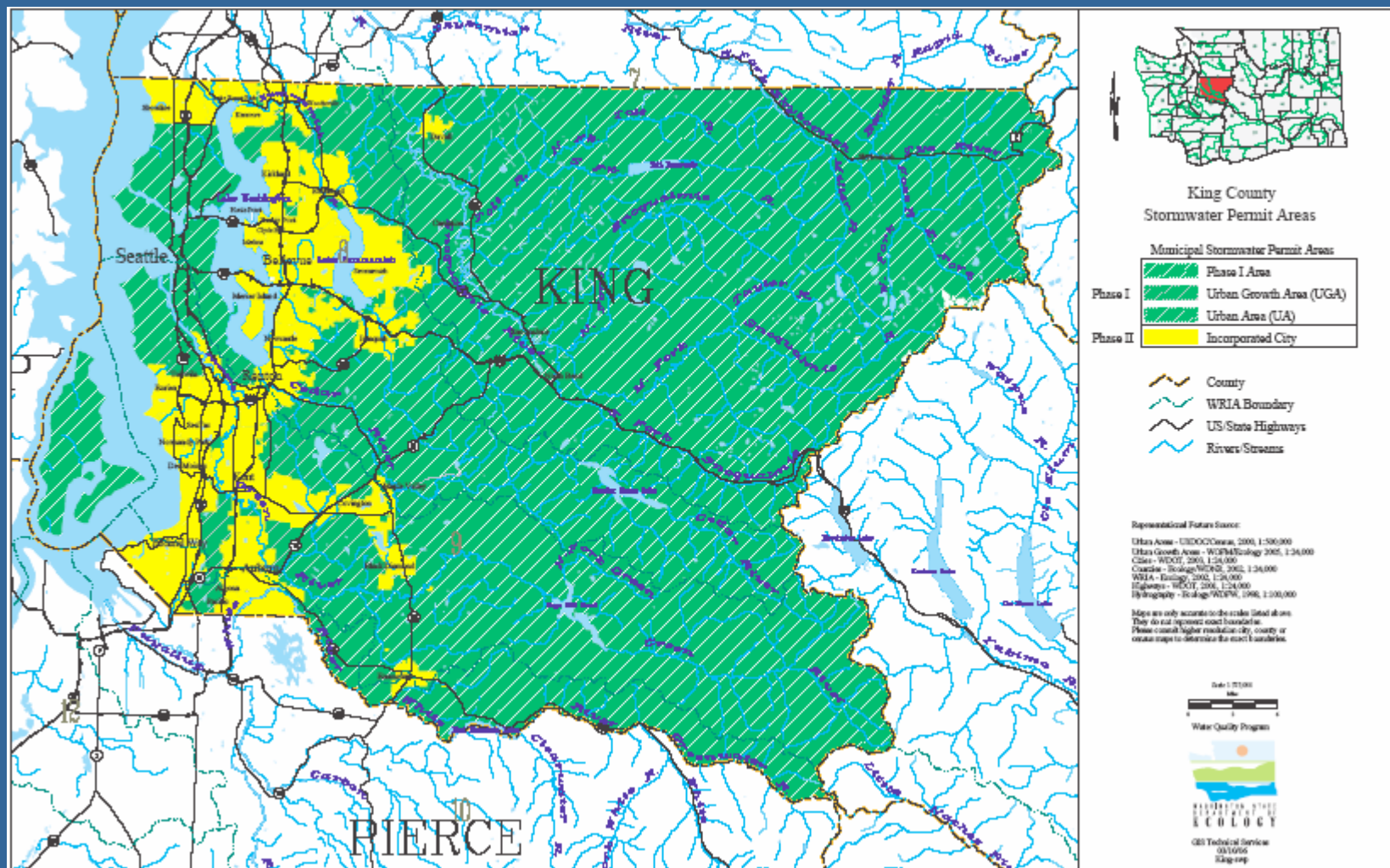
Maps are only accurate to the scale listed above.  
 They do not represent exact boundaries.  
 Please consult higher resolution data, county or  
 create maps to determine the exact boundaries.

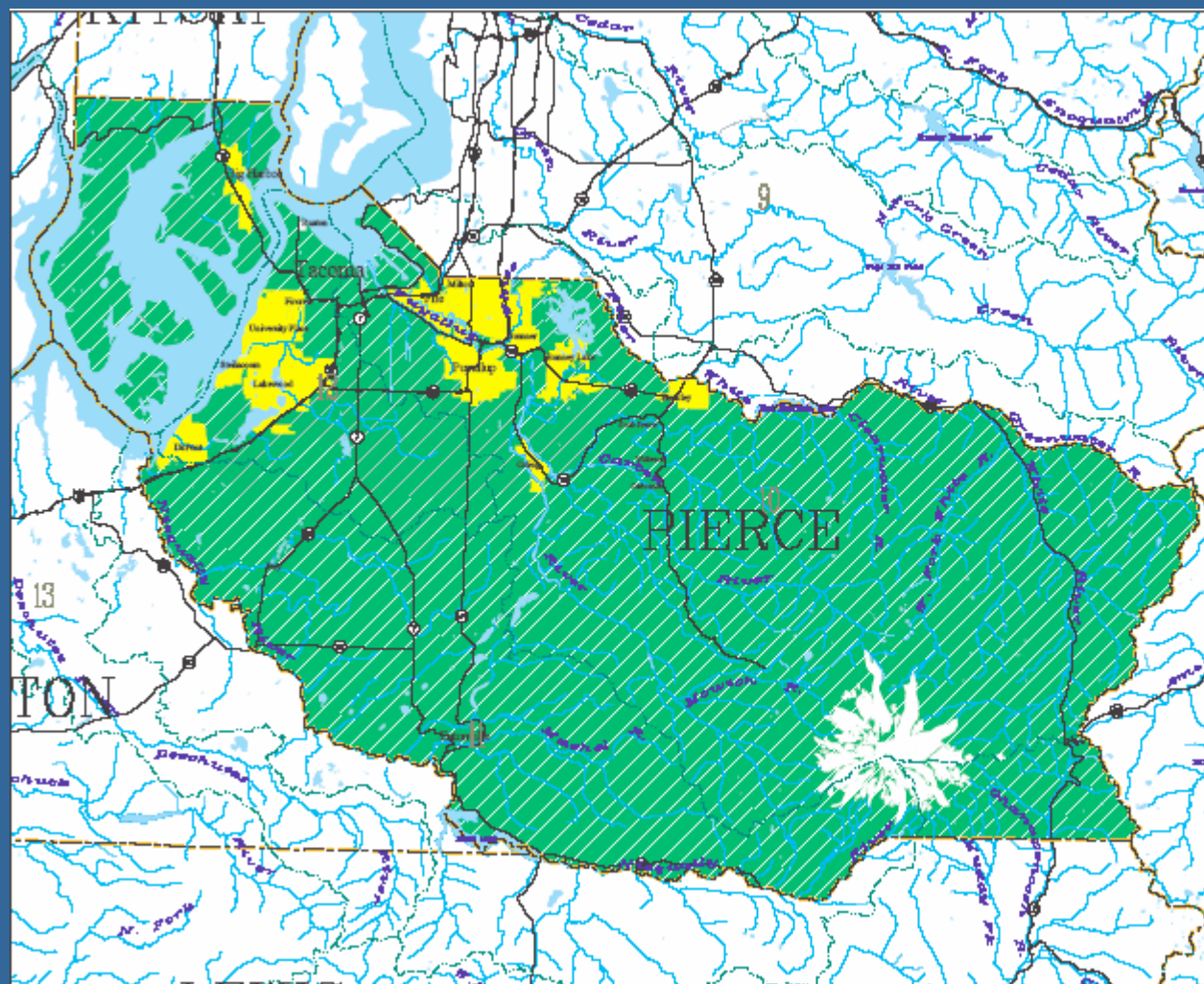


Water Quality Program



DES Technical Services  
 03/10/06  
 Endersley-06





# Pierce County Stormwater Permit Areas

## Municipal Stormwater Permit Areas

|          |                         |
|----------|-------------------------|
| Phase I  | Phase I Area            |
|          | Urban Growth Area (UGA) |
|          | Urban Area (UA)         |
| Phase II | Incorporated City       |

- County
- WRJA Boundary
- US/State Highways
- Rivers/Streams

## Representational Feature Source:

Urban Area - CUDOC/Census, 2000, 1:500,000  
 Urban Growth Area - WRJA/Geology 2005, 1:24,000  
 Cities - WDOT, 2000, 1:24,000  
 Counties - Ecology/WRNS, 2002, 1:24,000  
 WRJA - Ecology, 2002, 1:24,000  
 Highways - WDOT, 2000, 1:24,000  
 Hydrography - Ecology/WRNS, 1998, 1:100,000

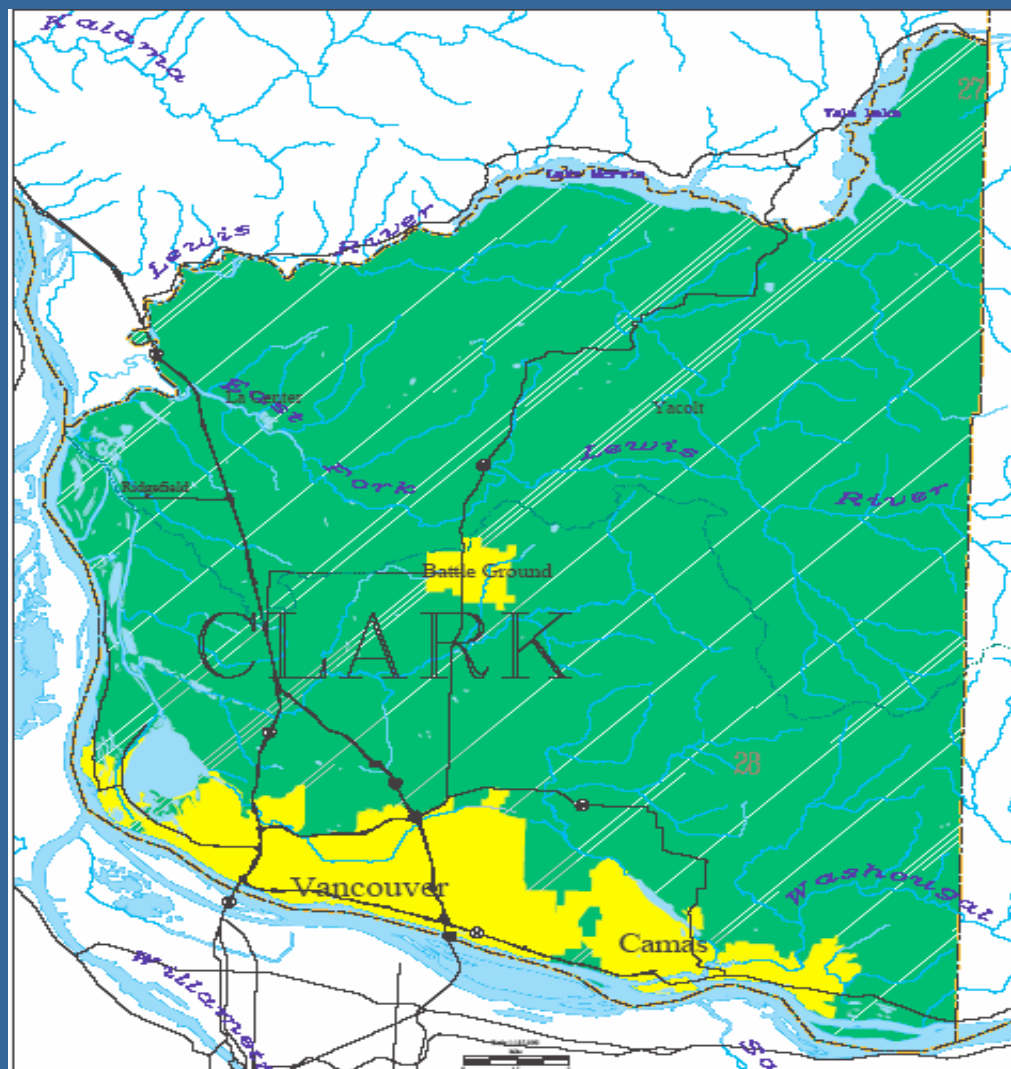
Maps are only accurate to the scale listed above.  
 They do not represent exact boundaries.  
 Please consult higher resolution city, county or  
 state maps to determine the exact boundaries.



Water Quality Program



GIS Technical Services  
 04/13/06  
 Planning



Clark County Stormwater Permit Areas



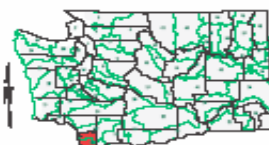
| Municipal Stormwater Permit Areas |                         |
|-----------------------------------|-------------------------|
| Phase I                           | Phase I Area            |
|                                   | Urban Growth Area (UGA) |
|                                   | Urban Area (UA)         |
| Phase II                          | Incorporated City       |

Representational Feature Source:

Urban Areas - USDOCC/Clark, 2000, 1:250,000  
Urban Growth Areas - WQRP/Clark, 2000, 1:250,000  
Cities - WQRP/Clark, 2000, 1:250,000  
Counties - WQRP/Clark, 2000, 1:250,000  
WRIA - WQRP/Clark, 2000, 1:250,000  
Highways - WQRP/Clark, 2000, 1:250,000  
Hydrography - WQRP/Clark, 2000, 1:250,000

County  
WRIA Boundary  
US/State Highways  
Rivers/Streams

Maps are only accurate to the scales listed above.  
They do not represent exact boundaries.  
Please consult higher resolution city, county or  
regional maps to determine the exact boundaries.



## S5. Phase I SWMP:

1. Legal Authority
2. MS4 Mapping and Documentation
3. Coordination
4. Public Involvement and Participation
5. New Development, Redevelopment and Construction Sites

## Phase I SWMP, cont.:

6. Structural Stormwater Controls
7. Source Control Program for Existing Development
8. Illicit Connections/Discharges
9. Operation and Maintenance
10. Education and Outreach

# 1. Legal Authority

- Control discharges coming into MS4
- Inspection and enforcement authority

## 2. MS4 Mapping and Documentation

- Outfalls
- Basin info for 24" outfalls
- Connections into the MS4
- Areas that discharge to ground
- GIS format



### 3. Coordination

- Internal - 1 year
- External - 1 year

### 4. Public Involvement and Participation

- Opportunities for participation -1 year
- SWMP on website

## 5. New Development, Redevelopment and Construction Sites

- Adopt Manual - 1 year

Ecology must review and approve

No 1 acre threshold

- Plan review, inspections and enforcement - 18 months

## 6. Structural Stormwater Controls

- List of Projects - 18 months
- Description including goals and process
- Expected results

## 7. Source Control Program for Existing Development

- Ordinance requiring application of BMPs - 1 year
- Identify potential sites
- Self audit/inspection program
- Enforcement
- Training

## 8. Illicit Connections and Illicit Discharges Detection and Elimination

- Continue on-going program
- Prohibit non-stormwater discharges
- Response

## 9. Operation and Maintenance Program

- Maintenance Standards
- Public/private stormwater facilities
- Catch basins
- Road and Parking lot practices
- Lands owned/maintained by permittee
- SWPPPS for maintenance yards

## 10. Education and Outreach

- Target audiences and topics
- Measurable improvements by end of permit
- Measure change

## S6. SWMP for Secondary Permittees

- Port of Seattle and Port of Tacoma
- King County as a Co-Permittee with Seattle
- Other Secondary Permittees the same as Phase II

# S8. Monitoring



## S8. Monitoring

- EPA rules for Phase I:

monitoring is expected

- 1995 permit - Each permittee proposed individual monitoring program

# Who is the monitoring for?

- Public
- Local governments
- Ecology

# How will the monitoring data be used?

- Feedback on specific actions
- Feedback on SWMPs
- Feedback on Municipal Stormwater Permits

1. Stormwater Monitoring

2. Stormwater Management  
Program Effectiveness  
Monitoring

3. Stormwater BMP Evaluation  
Monitoring

# 1. Stormwater Monitoring

- 3 sites
- 1 site for Ports
- Representative land uses
- Up to 15 storms per year
- Pollutant Loads – annual and seasonal

# 1. Stormwater Monitoring, cont.

- Flow-weighted composite samples
- Toxicity
- Grab samples - some parameters
- Sediments

## 2. Stormwater Management Program Effectiveness Monitoring

- Effectiveness of a targeted action
- Effectiveness of a targeted environmental outcome

# 3. Stormwater BMP Evaluation Monitoring

- Treatment BMPs

Basic treatment

Metals/phosphorous treatment

Oil control

- 2 BMPs and 2 sites/BMP
- Ports - 1 BMP at 2 sites

# Developing the Monitoring Program

- Quality Assurance Project Plans (QAPPs)
- Collaborative Program
  - Longer deadlines
- Separate monitoring report

# How and When to Comment

- Permit Fee
  - Comment period ends April 7, 2006
  - Information:  
[http://www.ecy.wa.gov/programs/wq/permits/permit\\_fees/index.htm](http://www.ecy.wa.gov/programs/wq/permits/permit_fees/index.htm)
- Municipal Separate Stormwater Discharge Permit
  - Comment period ends May 19, 2006
  - Information:  
<http://www.ecy.wa.gov/programs/wq/stormwater/municipal/index.html>